



# S H E P A R D B R O S . I N C .

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1.

#### COMPANY AND PRODUCT IDENTIFICATION:

DISTRIBUTED BY: Shepard Bros., Inc.	EMERGENCY TELEPHONE NUMBER (Chemtrec): (800) 424 – 9300
ADDRESS: 503 S. Cypress St. La Habra, CA 90631	TELEPHONE NUMBER FOR INFO: (562) 697-1366
DATE PREPARED: 3/28/11	FAX NO. (562) 697-5786
PRODUCT NAME(S): <b>SB-PERACETIC ACID,</b> <b>SB-PERACETIC ACID – E,</b> <b>SB-PERACETIC ACID – F</b>	DESCRIPTION: Liquid Sanitizer and Disinfectant

### SECTION 2.

#### HAZARDS IDENTIFICATION:

##### I. EMERGENCY OVERVIEW

Clear liquid with a sharp, pungent, vinegar-like color.

May severely irritate skin and eyes.

Oxidizer: Stabilized Peracetic acid, an ingredient in this product, decomposes under fire conditions to release oxygen that intensifies the fire. Use water to keep fire-exposed containers closed.

Target organs: Eyes, skin, nose, throat, lungs.

##### II. POTENTIAL HEALTH EFFECTS

OVERVIEW OF POTENTIAL HEALTH EFFECTS: Liquid and mist are corrosive (causing burns); direct contact could cause irreversible damage to eyes including blindness and/or irreversible destruction of skin tissue.

Vapor/mist will cause lacrimation and irritation of the nose throat and lungs but will usually subside when exposure ceases.

**INHALATION:** Inhalation of peracetic acid vapors causes lacrimation and irritation of the mucosal membranes, eyes, and nasal passages.

**SKIN CONTACT:** Severely irritating liquid and can cause chemical burns.

**EYE CONTACT:** May cause severe burns and irreversible tissue damage to eyes, including blindness.

**INGESTION:** CORROSIVE! If ingested, may cause severe burning of the mouth, esophagus, and stomach linings.

**CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** Chronic effects and medical conditions aggravated by overexposure to this product have not been established.

### SECTION 3.

#### COMPOSITION / INFORMATION ON INGREDIENTS:

The identity of individual components of this mixture is proprietary information and regarded to be a trade secret. However, based on the health hazard determination of ingredients present at a concentration greater than 1% and 0.1% or more of a carcinogenic substance, this mixture presents the following hazard:

HAZARDOUS COMPONENTS	% (RANGE)	CAS NO.	OSHA PEL	ACGIH TLV
Peroxyacetic Acid	5 - 6	79-21-0	NA	NA
Hydrogen Peroxide	20 – 30	7722-84-1	1 ppm (1.4 mg/m <sup>3</sup> )	1 ppm
Acetic Acid	5 - 10	64-19-7	10 ppm (25 mg/m <sup>3</sup> )	10 ppm (TWA) 15 ppm (STEL)



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### SECTION 4.

#### FIRST AID MEASURES:

**INHALATION:** Immediately move victim to fresh air. Give artificial respiration if breathing has stopped. Get medical attention immediately.

**SKIN:** Immediately flush the area with flowing water for at least 15 minutes, while removing contaminated clothing. Wash the area with a nonabrasive soap and plenty of water. Wash clothing separately before reuse.

**EYES:** Immediately flush with plenty of water, alternately lifting the upper and lower eyelids. If appropriate, after 5 minutes, remove contact lenses and continue flushing the eyes for an additional 15 minutes. Get medical attention if irritation persists.

**INGESTION:** Drink 2-3 glasses of water. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. Get prompt medical attention.

**NOTES TO MEDICAL DOCTOR:** This product can be corrosive to skin, eyes, and mucous membranes. Consideration should be given to careful endoscopy as stomach or esophageal burns, perforations or strictures may occur. Careful gastric lavage with an endotracheal tube in place should be considered. Observations may be warranted. Treatment is controlled removal of exposure followed by symptomatic and supportive care.

### SECTION 5.

#### FIRE FIGHTING MEASURES:

**EXTINGUISHING MEDIA:** Use water spray to keep fire exposed containers cool. Extinguish fire using agents suitable for nearby fires.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Stabilized peracetic acid decomposes under fire conditions to release oxygen that intensifies the fire. Use a water spray to keep containers cool.

**SPECIAL FIRE FIGHTING PROCEDURES:** Use flooding quantities of water only. Use water spray to keep fire exposed containers cool. Fight fire from protected location or maximum distance. Chemical type extinguishers are not effective with Peracetic acid or hydrogen peroxide, which are ingredients in this product. Use proper personal protective equipment and positive pressure self contained breathing apparatus.

### SECTION 6.

#### ACCIDENTAL RELEASE MEASURES:

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Approach release from upwind. Stop or control leak using special protective clothing and positive pressure self-contained breathing apparatus. Control run off and isolate discharged material for proper disposal. Do not allow undiluted material to enter storm or sanitary sewer systems. Combustible materials exposed to hydrogen peroxide, an ingredient in this product, should be immediately submerged in, or rinsed with, large amounts of water to ensure that all hydrogen peroxide is removed. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in a fire.

### SECTION 7.

#### HANDLING AND STORAGE:

**USAGE PRECAUTIONS:** Transfer product from drums to process in closed system (hermetically) and if not possible use effective local exhaust ventilation. Empty drum as thoroughly as possible. Triple rinse before disposal. Avoid contamination; impurities accelerate decomposition. Never return product to original container. Use airless spray to minimize mist generation.

**STORAGE PRECAUTIONS:** Do not store near reducing agents, fuels or other non-compatible materials. Store in a cool, dry, well ventilated area. For quality purposes, avoid temperatures above 86°F. Higher temperatures will accelerate decomposition resulting in a loss of assay. Do not store in direct sunlight, or near sources of ignition or heat. Do not double stack. Use first in, first out storage system. Containers must be vented.

Expected shelf life – 1 year.

**OTHER PRECAUTIONS:** Do not ship or store on wooden pallets.



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### SECTION 8.

#### EXPOSURE CONTROLS AND PERSONAL PROTECTION:

**ENGINEERING CONTROLS:** Provide adequate mechanical or local exhaust ventilation to minimize exposure levels. If release is expected use respiratory protection. Maintain eye wash and shower equipment.

**RESPIRATORY PROTECTION:** For normal use as directed, respiratory protection is not required. However, if exposures are anticipated to be above the limits as indicated in the "Exposure Limit" of Section 3, an approved full-face acid/gas cartridge or canister respirator should be used. If concentrations are unknown (e.g., significant spill or other emergencies), or if they are anticipated to be above 5 ppm for hydrogen peroxide or 50 ppm for acetic acid, the use of a full-face airline supplied respirator or self-contained breathing apparatus (SCBA) is recommended.

**SKIN PROTECTION:** Wear rubber or neoprene gloves. Wear rubber or neoprene footwear and aprons, or full protective clothing. Hydrogen peroxide is an ingredient in this product; completely submerge hydrogen peroxide contaminated clothing or other materials in water prior to drying.

**EYE PROTECTION:** Wear cup type chemical goggles. Full face shield may be used.

### SECTION 9.

#### PHYSICAL AND CHEMICAL PROPERTIES:

**FLASH POINT:** ~181°F (CC)

**BOILING POINT:** ~210°F

**MELTING POINT:** -15°F

**VAPOR PRESSURE (mm Hg):** 22 mm Hg @ 25C

**% VOLATILE BY VOLUME:** 99%

**SPECIFIC GRAVITY (WATER=1):** 1.10@ 20C

**DENSITY/WEIGHT PER VOLUME:** 9.17 lb/gal

**APPEARANCE:** Colorless liquid

**ODOR / TASTE:** Sharp, pungent, vinegar like color

**SOLUBILITY IN WATER:** Complete

**pH at 25°C:** Less than 1 , 2-3 in 1% Solution.

**EVAPORATION RATE:** >1 (Butyl Acetate = 1)

### SECTION 10.

#### STABILITY AND REACTIVITY:

**STABILITY** \_\_\_\_\_ Unstable   X   Stable

**INCOMPATIBILITY (*Materials to Avoid*):** Dirt, alkali, reducing agents, organics and heavy metals such as iron, copper, chromium, aluminum, cobalt and caustic.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxygen that supports combustion and acetic acid.

**HAZARDOUS POLYMERIZATION:** \_\_\_\_\_ MAY OCCUR   X   WILL NOT OCCUR

**CONDITIONS TO AVOID:** High temperatures above 86°F, flames, and incompatibles.

### SECTION 11.

#### TOXICOLOGICAL INFORMATION:

Severely irritating to eyes and skin.

Dermal LD50: No data available for this product. 17% Peracetic Acid: > 200 mg/kg (rabbit)

Oral LD50: 1,922 mg/kg (rat)

Inhalation LC50: 5% PAA: 4,080 mg/m<sup>3</sup> (4157 ppm) (4H) (rat), 100% PAA: 204 mg/m<sup>3</sup> (66 ppm) (4h) (rat)

### SECTION 12.

#### ECOLOGICAL INFORMATION:

96-hour LC50 = 1.6 mg/L (Rainbow trout)



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96-hour LC 50 = 1.1 mg/L (Bluegill sunfish)  
48-hour EC50 = 0.73 mg/L (Daphnia magna)  
120-hour EC50 = 0.18 mg/L (Selenastrum, green algae)

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### **SECTION 13. DISPOSAL CONSIDERATIONS:**

Collect and dispose of in accordance with Federal, State and Local laws and regulations.

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### **SECTION 14. TRANSPORT INFORMATION:**

#### **DOT**

**DOT Proper Shipping Name:** Hydrogen Peroxide and Peroxyacetic acid Mixtures, Stabilized with Acids, Water and not more than 6% Peroxyacetic Acid, 5.1 (Oxidizer), Subsidiary Risk: 8 (Corrosive), UN3149, PGII

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### **SECTION 15. REGULATORY INFORMATION:**

**SARA Title III Section 302 Extremely Hazardous Substances(40 CFR355, Appendix A):**  
Peroxyacetic Acid (Peracetic Acid) RQ: 500 lbs

**SARA Title III Section 313 Reportable Ingredients(40 CFR372):**  
Peracetic Acid 5%

**CERCLA Designation & Reportable Quantities (RQ) (40 CFR 302.4):**  
5% Peracetic Acid (Unlisted), RQ=100 lbs., Corrosivity, Reactivity  
Acetic Acid: RQ=5,000 lbs, Category D

**CALIFORNIA/OSHA DIRECTOR'S LIST OF HAZARDOUS SUBSTANCES (8 CCR 339):** Acetic Acid, Hydrogen Peroxide

**CALIFORNIA PROPOSITION 65:** This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm. – None known

**Label: Oxidizer - Corrosive**

**NFPA RATING: Health: 3 Fire: 1 Reactivity: 2 Special: OX**

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### **SECTION 16. OTHER INFORMATION:**

**SUPERSEDES:** MSDS issued on 2/16/11. Section 15 updated.

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NA: not applicable ND: not determined

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